



31 Aug 1994

## The Missouri Miner, August 31, 1994

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# Missouri Miner



A publication of the students of the University of Missouri-Rolla

August 31, 1994

Volume 84, Number 1

Sixteen pages

## Rolla professor to continue lead poisoning research



News Services  
SOURCE

Dr. Paula Lutz, assistant professor of life sciences at the University of Missouri-Rolla, has received a \$133,980 grant to continue research on lead poisoning. This grant, from the National Institute of Environmental Health Sciences, will support Lutz's

study of how elevated blood lead levels may affect the immune systems of children ages nine months to six years. The grant period is from July 1, 1994, to June 30, 1995.

Lead depresses the immune systems of animals, says Lutz, but information about how it affects human immune systems is sparse. Her focus is on children who participate in two programs of the Springfield-Greene County (Mo.) Health Department: the Women, Infants and Children program and the Lead Poisoning Prevention

Program. Lutz has worked on the project since 1990 and collects data about every two weeks. Despite the 1978 ban on lead-based paint, many older homes still have interior or exterior surfaces on which lead-based paint remains. Many children, especially those in low-income families, are then exposed to environmental lead by ingesting lead-based paint chips. It has been estimated that removing the lead-based paint from the most seriously contaminated American homes will cost about \$17 billion. "More informa-

tion on lead's effects needs to be generated before such an outlay of tax dollars is initiated," says Lutz. She hopes her research will provide the government with data to make intelligent policy decisions on the cleanup of lead paint. She is being assisted in her study by Dr. Nord Gale, professor and chairman of the UMR life sciences department, and individuals from the Springfield-Greene County Public Health Department, the Missouri State Health Department and St. John's Regional Medical Center of Springfield.



Michael O'Shea  
Lutz received a research grant for her work with lead poisoning

## Fall film series begins



News Services  
SOURCE

The University of Missouri-Rolla's Fall Film Series began Aug. 30 with "The Duellists" and will Dec. 6 with "Harold and Maude." Movies will be shown at 7 p.m. on Tuesdays in UMR's Miles Auditorium in the Mechanical Engineering Building. Season tickets are \$20 and admission at the door is \$3 unless noted below. This year's series includes: Sept. 6, "Casualties of War"; Sept. 13, "Europa,

Europa"; Sept. 20, "Camp De Thiaroye"; Sept. 27, "Frida," which is sponsored by the Hispanic Cultural Committee and is free to students, faculty and area residents; Oct. 4, "Short Cuts"; Oct. 11, "The Lady From Shanghai"; Oct. 18, "A Brief History of Time"; Oct. 25, "Insignificance"; Nov. 1, "Young Frankenstein"; Nov. 3, "High Fidelity," which is free to KUMR members; Nov. 15, "Babette's Feast"; Nov. 29, "Rhapsody in August"; and Dec. 6, "Harold and Maude." The series is sponsored in part by a grant from the Missouri Arts Council. For more information, call 341-4185.

## Waterjet research may benefit cancer victims



News Services  
SOURCE

A new method of skin cancer treatment using waterjet therapy is being developed by researchers at the University of Missouri-Rolla. The group has developed the waterjet method for treatment of basal cell carcinoma, "the most common type of skin cancer in

humans," according to Dr. William Van Stoecker, a Rolla dermatologist who is also an adjunct professor of computer science at UMR. Working with Stoecker are Dr. David A. Summers, director of the UMR High-Pressure Waterjet Laboratory, and James G. Blaine, supervisor of the Technical Laboratory in UMR's Rock Mechanics and Explosives Research Center. The group has experimented with several means of delivering a thin stream of fluid from a waterjet device to remove

## Choir and orchestra members needed



News Services  
SOURCE

ROLLA, Mo. — The University of Missouri-Rolla is seeking area vocalists to join the University Choir and instrumentalists to join the University Orchestra. The first rehearsal of the University Orchestra is scheduled for 7 p.m. Tuesday, Aug. 23, in Room 138 Castleman Hall, 10th and Main streets. The orchestra's first performance — the fall concert — is set for 2 p.m. Sunday, Oct. 16, in Leach Auditorium, Castleman Hall. Choir and instrumental positions are open to UMR students as well as residents of Rolla

and surrounding communities, says Joel Kramme, assistant professor of music at UMR and director of the choir and orchestra. There is no cost to participate, but choir members should be able to attend rehearsals, which are held from 12:30 to 1:20 p.m. on Mondays, Wednesdays and Fridays in Room 138 of Castleman Hall. Selections for the fall concert include "Don Quixote Suite," by George Philipp Telemann (1681-1767); "Symphony No. 35 in D major, K. 385," by Wolfgang Amadeus Mozart (1756-1791); and "Violoncello Concerto No. 1 in A, Op. 33," by Camille Saint Saens (1835-1921). The orchestra also will perform during the University Choir Christmas Concert at 2 p.m. Sunday, Dec. 11, in Leach Auditorium. The choir, with the orchestra accompan-

ing, will perform Marc-Antoine Charpentier's (1634-1704) "Messe de Minuit pour Noel" (Midnight Mass for Christmas). Best known for its simplicity and sweet joy, the Mass will be followed by four modern carols by Alfred Burt (1921-1954). The final selection, Normand Lockwood's (1906-) "Carol Fantasy," will feature the orchestra and choir in a modern arrangement of five traditional carols: "Deck the Hall," "We Three Kings," "Away in a Manger," "Once, Long Ago," "O Tannenbaum" and "When the Winter Sun." For more information about the University Choir, call Kramme at 341-4109. Instrumentalists interested in joining the University Orchestra — which rehearses from 7 to 9:15 p.m. each Tuesday — can also call Kramme for details.

## Heating and air conditioning course offered



News Services  
SOURCE

The University of Missouri-Rolla will offer a short course on "Heating, Ventilating, and Air-Conditioning Systems: Sizing and Design" Sept. 19-21 at the Holiday Inn-St. Louis Downtown Convention Center in St. Louis.

The course is designed to provide an understanding of the fundamentals of equipment sizing and energy estimating for heating and air-conditioning systems. Participants should have a degree in engineering or science or the equivalent experience and should bring a calculator to class. Course instructors will be Dr. Ronald H. Howell, a professor and chairman of mechanical engineering at the University of South Florida, and Dr. Harry J. Sauer Jr., a professor of mechanical and aero-

space engineering at UMR. The fee for the course is \$895. The registration deadline is Sept. 5. For technical information, contact Sauer at the department of mechanical and aerospace engineering and engineering mechanics, UMR, Rolla, Mo. 65401, or call (314) 341-4143. For registration information, contact Walter L. Ries, Continuing Education, 103 Mechanical Engineering Annex, UMR, Rolla, Mo. 65401, or call (314) 341-4132.



# What's Up at UMR

## Wednesday

1:00-7:00 pm: Blood Drive, TJ South Lounge. For more info, contact Christine Ryan, 341-4900

## Thursday

1:00 pm: University of Missouri Board of Curators mtg., Ballroom, University Plaza Hotel, Springfield

## Friday

9:00 am: University of Missouri Board of Curators meeting (tentative), Ballroom, University Plaza Hotel, in Springfield, Mo.

## Saturday

UMR Men's and Women's Cross Country, Lions

Invitational, time to be announced, at St. Charles.

12:30 pm: UMR Football vs. Michigan Technological University at Houghton, Mich.

## Sunday

2:00 pm: UMR Men's Soccer vs. Phillips University at Enid, Okla.

## Tuesday

7:00 pm: UMR Fall Film Series, "Casualties of War," Miles Auditorium, Mechanical Engineering Building. Season Tickets are on sale for \$20. Individual tickets are \$3 and are available at the door. For more information call 341-4185.

## Next Wednesday

3:00 pm: UMR Women's Soccer vs. McKendree College at Lebanon, Ill.

5:00 pm: UMR Men's Soccer vs. McKendree College at Lebanon, Ill.

## Financial Aid

ANNUAL COMPETITION FOR FULLBRIGHT GRANTS OPENS

The United States Information Agency (USIA), the J. William Fulbright Foreign Scholarship Board (BFS) and the Institute of International Education (IIE) announce the May 1, 1994 official opening of the 1995-96 competition for Fulbright Grants for graduate study or research abroad in academic fields and for professional training in the creative and performing arts.

The purpose of these grants is to increase mu-

tual understanding between the people of the United States and other countries through the exchange of persons, knowledge and skills. They are funded under the Mutual Educational and Cultural Exchange Act of 1961 through an annual appropriation made by Congress to USIA. Participating governments and host institutions in many countries also contribute. The BFS, composed of 12 educational and public leaders appointed by the President of the United States, establishes criteria for the selection of candidates and has the final authority for the awarding of grants.

For all grants, applicants must be U.S. citizens at the time of application and hold a bachelor's degree or its equivalent by the beginning date of the grant. Creative and performing artists are not required to have a bachelors degree, but they must have four years of relevant training or study. Candidates in medicine must have an M.D. or equivalent at the time of application.

All applicants are required to have sufficient proficiency in the language of the host country to carry out their proposed study or research.

Fulbright Full grants provide round trip international travel, maintenance for the tenure of the grant, a research allowance, and tuition waivers if applicable. Fulbright Travel Grants provide round trip travel to the country where the student will pursue study or research and are intended to supplement maintenance awards from other sources that do not provide funds for travel. All grants include basic health and accident insurance.

Complete program and application information is contained in the brochure, "Fulbright and other grants for graduate study or research abroad, 1995-96." Students currently enrolled in a college or university should contact their on-campus Fulbright Program Advisor for brochures, application forms, and further information.

## Clubs and Societies

### American Society for Engineering Management

The American Society for Engineering Management will hold its first meeting of the new semester on Thursday, September 1, in 204 McNutt at 6:30 P.M. New members and other disciplines are welcome. Refreshments will be served afterwards. Call 341-4059 for further information.

### American Society for Quality Control

The student branch of the American Society for Quality Control, UMR chapter, is pleased to announce the beginning of their third year on campus. ASQC is the worldwide leader in the development, promotion, and applications of quality and quality related fields for professionals, government, and academia. Their mission is to create a greater awareness of the need for quality, to promote the research and development of standards, and to provide educational and training opportunities for management and professionals concerned with quality. Members of ASQC have initiated most of the quality methods now used throughout the world. Some of these include statistical process control, failure analysis, and zero defects.

If you would like the meeting times for your organization published in the Miner's weekly calendar, you can send us the information via campus mail or leave it in the dropbox in 103 Norwood. Please make sure to include the name and telephone number of someone who can be contacted if any questions arise. All submissions must be received by the Thursday prior to publication.

ASQC is made up of professionals dedicated to the advancement of quality. Contact with other professionals can increase your upward movement, keep you up-to-date technologically, and develop leadership skills. It gives you the opportunity to improve yourself and the entire quality profession. Membership in ASQC entitles you not only to free quality-related publications, programs for formal Certified Quality Engineer certification, and various other educational opportunities, but also provides job opportunity information, a free Personnel Listing Service, and makes you a more marketable employee.

President to the UMR student chapter, Elizabeth Fox, says, "No matter what your discipline is, at some point in your career you will deal with the issues of Quality Control. Today's global market demands it and it definitely improves your chances in a tight job market. Involvement in ASQC and a good working knowledge of statistics helped me obtain an excellent co-op job and I'm looking forward to repeating this success when I graduate."

ASQC will hold its first general meeting of the new semester on Wednesday, August 31, in 201 Engineering Management at 6:30 P.M. Although ASQC is sponsored by the Engineering Management department,

other disciplines are welcome. Contact 341-4059 or 368-4209 for further information.

### MSM Spelunker's Club

The Missouri School of Mines Spelunkers Club will be having its first meeting of the fall semester on Wednesday, August 31. The meeting will be held at 6:00 P.M. in room 204 McNutt Hall. Anyone interested in finding out more about the activities of the club is welcome to attend. No spelunking experience is needed to join the club.

The MSM Spelunkers Club is the oldest organized cave exploring grotto in the state of Missouri. The club has been promoting caving since the mid-1930's, and continues to be devoted to locating, exploring, surveying/mapping, and preserving cave and karst systems. Every interest from just enjoying a cave for esthetics to cave rescue training is offered to club members. The purposes of the club are: (1) to bring people together who have an interest in the exploration, geology, surveying, photography, and preservation of caves and cave life; (2) to promote and teach safe caving techniques; and (3) to inform people, individuals and groups, of cave conservation and preservation.

## Missouri Miner

The *Missouri Miner* is the official publication of the students of the University of Missouri-Rolla. It is distributed each Wednesday afternoon at Rolla, Missouri and features activities of the students of UMR.

All articles, features, photographs, and illustrations published are the property of the *Missouri Miner* and may not be reproduced or published without written permission.

The *Missouri Miner* encourages comments from its readers, and will attempt to print all responsible letters and editorial material received. All submissions must have a name, student ID number, and phone number for verification. Names will be withheld upon request.

Submissions for publication must be in our drop box (first floor of the Norwood Hall, Room 103) by 3:30 p.m. on the Thursday before publication. Submissions, not including personals, will be accepted through E-mail (Internet) at MINER@UMR.EDU. The *Missouri Miner* reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

The *Missouri Miner* is operated by the students of UMR and the opinions expressed in it do not necessarily reflect those of the university, faculty, or student body.

Our new staff for the 1994-1995 year:

Editor-in-Chief	Christopher Goo (364-8247)
Managing Editor	Jeff Lacavich (341-8436)
Business Manager	Jason Boles (364-8968)
Advertising Director	Billy Mittenzwey (341-2331)
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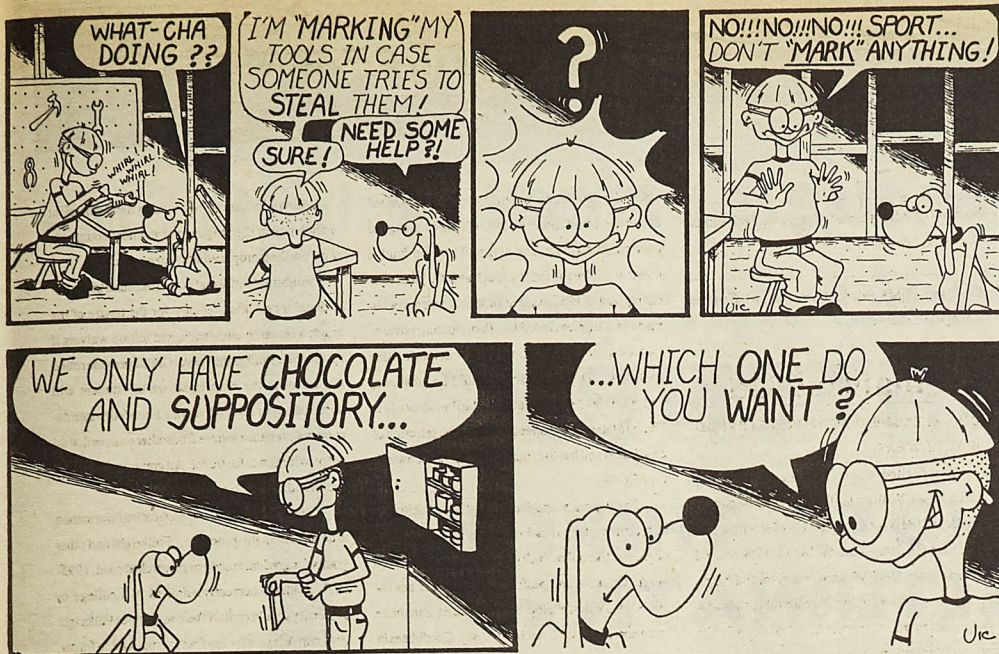
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Oh yes,  
we do recycle!  
Please do the same!





## Welcome back to another semester from the 1994-95 Miner Staff

Well once again we return from our joyful days of summer to return to this home away from home called Rolla. This year's Miner staff is relatively new, but very dedicated to providing you with a quality paper. As a reminder, this is a student newspaper, written and produced by you the student. If you have a viewpoint that needs to be expressed, don't be hesitant to turn it into us and we will try to get it in the paper that week. Also, the paper is looking for writers, ad salesmen, and some circulation jobs so if you are interested in joining, please contact us at 341-4235 or 341-4312. The pay is good and it looks great on your resume. We're looking forward to a great semester.

-Christopher Goo  
Editor-in-Chief-

# Come Visit The Career Opportunities Center

By: Chris Sowers

**Industry Career Day - Thurs., Sept. 22**  
"Step into the employment picture" early this semester at this day long event in the Multi-purpose Building. Meet company representatives who want to recruit UMR students.

If you are graduating soon and are looking for a full-time job, or if you are interested in a co-op or summer position to gain some work experience, come to Industry Career Day to talk to recruiters and to look over company displays. From 9 a.m. to 3 p.m.

### Career Opportunities Center Services

Welcome back to a new school year! The COC is here to assist you in obtaining a professional position for full-time, co-op or summer, in your chosen field of study. Services include:

- \*Computerized registration and interview sign up.
- \*Orientation seminars
- \*Workshops on resume and cover letter writing and interviewing
- \*Individual appointments to review resume and cover letter
- \*Practice interviews
- \*Cooperative training
- \*On-campus interviews
- \*Career fairs
- \*Job bulletins
- \*Books, videos, periodicals, articles, directories
- \*Resume referral
- \*Alumni services

Job experience while in school helps land job after graduation

Employers like to hire graduates with job experience in their field of study in the "real world." There are several ways to get undergraduate work experience:

- \*Co-op jobs (cooperative training)
- \*Internships
- \*Summer jobs in field of study

- \*Volunteer work experience
- \*Research projects in your department
- \*Undergraduate Teaching Assistant

### Cooperative Training

UMR has built a strong Co-op program over the past 40 years in all areas of engineering, depending upon company needs, as well as several in the humanities. Co-op students alternate semesters of full-time academic study at UMR with semesters of full-time salaried work in their field of study.

Average Co-op monthly salary is \$1,850.

Today, there are more than 400 UMR students working for over 130 companies in 23 states and 90 cities.

Co-op requirements include: a student must have completed at least two academic semesters, must maintain a good academic record and must pay a co-op fee.

Come visit the COC to find out more about Co-op....a great way to get your education and valuable work experience at the same time!

### Practice Interviews Are New at UMR!

As a new service beginning this fall, the COC will be offering 30 minute practice interviews with a career advisor on Tuesday mornings. Students will sign up for an individual appointment at the Center and need to come prepared to answer interview questions listed in the COC Manual.

The format is to include 15 minutes of a videotaped interview followed by a 15 minute review and critique. If you want to get your interviewing off to a more confident start or if you want to brush up, seeing yourself on tape may be worth a thousand words!

Can you answer interview questions like these?

- \*Tell me about yourself.



The Career Opportunities Center is located on the third floor of Norwood Hall. Do not wait until your senior to get familiar with all the excellent resources. Jobs are hard enough to find don't make them any harder.

- \*What do you know about this organization?
- \*What are your strengths and weaknesses?
- \*Where do you see yourself in 5 years?
- \*Do you prefer to work alone or with others?
- \*How do you feel about travel?

August '94 UMR Salary Survey  
Computer Science - \$33,389  
Applied Math - \$28,362\*  
Management Systems - \$30,996  
Aerospace Engr - \$34,168  
Chemical Engr - \$39,017  
Civil Engr - \$29,244  
Electrical Engr - \$36,185  
Engr Management - \$33,301\*  
(Industrial Engr)  
Mechanical Engr - \$35,023  
Ceramic Engr - \$35,800  
Geological Engr - \$32,657\*  
Geology - \$27,876  
Metallurgical Engr - \$35,278  
Mining Engr - \$32,657\*  
Nuclear Engr - \$32,544\*  
Petroleum Engr - \$38,192\*  
English - \$23,004  
History - \$23,498\*  
Psychology - \$20,270\*  
Economics - \$27,801\*

\*from July 1994 College Placement Council Salary Survey

### Workshop Schedule

At the beginning of each semester the COC offers several workshops to help students prepare for their job search. They can save you lots of time and answer lots of questions. Take advantage of this service.

### Industry Speakers' Series

Each semester the COC sponsors several speakers from industry who come to speak on job search topics of interest to students. This fall's series kicks off on September 27:



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Prices!*



**December Graduates !**

Don't forget to apply for  
graduation by September 2.



# Sports

## UMR Gridiron Heats Up Over Hazy Summer Days

### UMR Football

#### Source

A .500 season, something that has not taken place since the 1987 season, is the next step for the University of Missouri-Rolla football program. The Miners did improve a year ago from 2-9 to 3-7, and with a few more breaks might have reached the break-even point in 1993. That is the immediate goal for the Miners as they began practice for the 1994 season on Aug. 10th.

It did appear that UMR had a good shot at .500 last season as it won three of its first four games, but the Miners finished the year with a six-game losing streak -- all but one loss coming to the Mid-America Intercollegiate Athletics Association's top five teams. UMR will take its first shot at ending the skid Sept. 3 at Michigan Tech.

According to head coach Jim Anderson, about 85 players were expected to be on hand for the first day of practice.

"I think the players are coming into camp with a positive attitude and are looking forward to making the sacrifices necessary to have a winning season", Anderson said. "I am also excited about the increase in numbers on our squad, which will enable us to practice in a much more efficient manner."

"This will give the players a lot of repetitions in a relatively short period of time, which is important because we have to make some rapid progress," Anderson added.

Last season, the Miner offense looked solid and the defense appeared

to be in question as camp opened. The tables have been turned this August, as the defensive unit is the more experienced group heading into the start of fall drills.

"Our defense could be very sound in 1994," Anderson said. "This is the strength of our team going into the season because of the inexperience of our offense. We still need to make improvement, but in terms of experience and personnel, this can be a good defense."

The Miner defense has 15 returning lettermen and eight starters back from a year ago. It is also a unit with star quality as a pair of returning first-team ALL-MIAA performers, defensive tackle Jerry Wallock (Bolingbrook, Ill.) and cornerback Matt Henry (Topeka, Kan.), are back. Two honorable mention selections, linebacker Cary Lange (Rolla) and free safety Darin Nix (Palmyra, Mo.), also return and figure to be in the starting lineup on opening day.

Wallock finished his junior year with 49 tackles despite being double-teamed on many occasions. He should receive help up front from a group of veteran players, led by defensive tackle Tony Giacalone (St. James, Mo.) and ends Chris Ward (St. Louis/Parkway Central), Chris Brownell (Hannibal, Mo.) and Gary Tomlinson (St. Joseph/Central).

Henry is likely to be joined at cornerback by sophomore Bill Brown (Mexico, Mo.), who was progressing well before a mid-season accident sidelined him. Another sophomore, Courtney Porter (St. Louis/Hazelwood

East), is projected to be the strong safety alongside Nix. Returning lettermen Ted Button (Warrensburg, Mo.) and Chad Salli (Wentzville, Mo.) will also contend for playing time in the secondary.

Lange is expected to return to his inside linebacker spot, where he will have one familiar face, junior Ed Reichert (Kansas City/O'Hara), lined up on one side and a new starter, sophomore Brian Gilmore (Potosi), on the other. Dave Mickelsen (Wheaton, Ill.), a converted defensive end, and Michigan Tech transfer Eric Jefferson (St. Louis/McCluer) should contend for playing time at linebacker as well.

While the Miner defense appears to be in good order heading into the start of practice, the offensive unit has a lot of holes to fill. Only four starters return, including the MIAA's third-leading rusher in 1993 in Ernest Brown (Wichita, Kan.).

Brown became only the second player in Miner history to eclipse the 1,000-yard mark when he ran for 1,050 last season. He also averaged an impressive 5.8 yards per carry last season for a Miner attack that scored exactly as many points--228--as their opponents did.

However, Brown is the only returning starter at the skill positions as the other three starters are on the offensive line. UMR does return center Les

Moody (Republic, Mo.) and guards Jason Crawford (Decatur, Ill.) and Jim Van Acker (Geneseo, Ill.). But even the line took a big hit with the graduation of ALL-MIAA guard Bill Smith.

Contenders for the other offensive

line positions include several sophomores: Mike McEnery (Houston, Tex.), Monte Connor (St. Charles, Mo./Francis Howell North) and Chris Marlow (Charleston, Ill.). A number of incoming freshmen will also battle for playing time.

Although Brown is the only returning starter at a skill position, UMR will have some experience in the backfield. Russell Zung (Rolla) is the leading candidate to fill the vacancy at fullback, while reserves will include versatile tailback Chris Williams (Pascagoula, Miss.) and redshirt freshman Jason Wagoner (St. Louis/St. Louis University High).

Bryan Tilley (Cape Girardeau, Mo./Central) was the lone tight end on the roster during the spring session, but is expected to be challenged for playing time by freshmen Jason Benne (Galesburg, Ill.) and Justin Schaller (Washington, Mo.). The wide receiver position will also have plenty of unfamiliar faces after returning letterman Craig Sorenson (Bonner Springs, Kan.). Sorenson caught 14 passes last season, or 11 more than the combined total of the others competing for roles.

Junior David Wells (Bay Minette, Ala.), sophomore Brian Vallely (Mexico, Mo.), and redshirt freshman Elliott Jackson (Grandview) are the top contenders for playing time at wideout.

Maybe the biggest question heading into practice is who will replace Mike Wise at quarterback. Wise, the school's all-time leader in total offense, has completed his eligibility and left the position to either last year's backup,

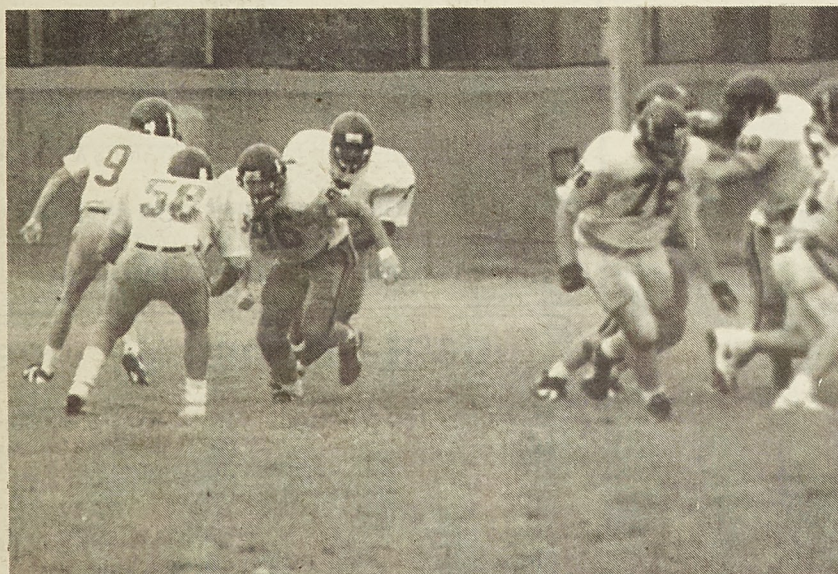
Joe Knapp (Estero, Fla.), or redshirt freshman Jason Politte (St. Louis/Hazelwood East).

"We have some big holes to fill," Anderson said. "I feel good that we have some good personnel competing for positions, but offensive football involves a lot of timing and repetitions to mesh as a unit. Hopefully we can improve at a rapid pace before the opener at Michigan Tech, but whether or not we'll be at top form offensively is a question."

The Miners also suffered another big loss with the departure of All-American placekicker Eivind Listerud. That duty may be in good hands with redshirt freshman Brandon Risner (Bixby, Ok.), a kicker Anderson feels has abilities equal to Listerud's. Chris Shore (Joplin), who averaged 34.7 yards a punt last season, returns for his fourth season as punter.

"We made progress last season, but everybody was disappointed that we won only three games," Anderson said. "We felt we were on the right path to a winning season last year, but we stubbed our toes in a couple of games that were winnable. We are going to concentrate a great deal on eliminating mental mistakes and we will condition harder, because a tired team in the fourth quarter tends to make mistakes."

UMR will have three of its first four games away from home, starting with Michigan Tech on Sept. 3. The Miners will open the home schedule against Washburn University on Sept. 17.



Michael O'Shea

The UMR Football squad endures the hot Missouri sun, in preparation for the upcoming season. The Miners start their run for the MIAA crown against Michigan Tech on Sept. 3rd.

## Intramural Season Gears Up

Jason Carter

Corresponding Secretary IMA

Welcome back to school. We are looking forward to a great year of fun and competition, so get ready to play our first sport, softball.

First I'd like to welcome our new officers. President - Chris Baumgartner - Tau Kappa Epsilon, Vice President - Mark McManus - Sigma Phi Epsilon, Recording Secretary - Chris Kuntz - Sigma Chi, Treasurer - Glen Miller - Lambda Chi Alpha, Corr. Secretary - Jason Carter - Delta Tau Delta, Congratulations!

Here are some dates to remember: Softball starts 8/29. Golf and Horse-shoes entries due 8/31 by 8:00PM. Rosters and dues are also due 8/31. If you don't have them, you start to forfeit games, so get them in.

A big welcome to three new organizations, The Tribe, 7 North, and The Unknowns.

Softball practice should have

begun for most squads. The Division I race should be tight again this year, defending champ Phi Kappas look tough but don't count out perennial favorite Sig Ep.

For those teams looking to improve on their organization's performance from last year, here are the overall top five finishers in 1993-94 intramural competition.

Final Men's Standings	
Organization	Points
Sigma Nu	2653.5
Sigma Phi Epsilon	2543
Phi Kappa Theta	2439.5
Lambda Chi Alpha	2368
Pi Kappa Alpha	2304.5

Final Women's Standings	
Organization	Points
Zeta Tau Alpha	691
Chi Omega	666.5
TJHA	540.5
Kappa Delta	467
BSU	460

Good luck to all, and let's have a great semester of competition.



# UMR Athletics Entice Fans

## UMR Sports

### Source

Fans attending University of Missouri-Rolla athletic events during the 1994-95 season will have the opportunity to win a pair of round-trip airline tickets to anywhere in the continental United States, thanks to a promotion sponsored by International Tours of Rolla through the UMR athletic department.

The contest begins with the Sept. 17 home football game against Washburn University and concludes with the drawing of the winner at halftime of the Feb. 18 men's basketball game against the University of Missouri-St. Louis. To be eligible, fans must attend home games throughout the year.

If a fan attends 15 of the 20 scheduled football and basketball home games during the 1994-95 athletic season, then he or she may turn in a designated punch card by halftime of the Feb. 18 basketball game for the drawing. Dated punch cards will be made available in September for the promotion, and one space will be punched out per game.

The punch cards will be available at the first six home events, at International Tours' office, 1106 N. Bishop

Ave., and the UMR athletic office through Thanksgiving.

The winner will receive two round-trip airline tickets from International Tours to any destination in the continental U.S. A minimum two-week advance reservation for the tickets will be required.

In order to have a card punched, one must have a paid admission ticket or a valid UMR student I.D. Punches will not be given for complimentary tickets or passes to the events. Employees and immediate family members of International Tours, the UMR athletic department, or current UMR student-athletes are not eligible for the prizes.

For additional information, call the UMR athletic office at (314) 341-4175.

Following are the 20 dates designated for the ticket giveaway.  
1994-95 UMR HOME FOOTBALL/  
BASKETBALL DATES

Sept. 17: Football vs. Washburn (1:30)

Oct. 8: Football vs. Pittsburg State (1:30)

Oct. 22: Football vs. Northeast Missouri State (1:30)

Nov. 5: Football vs. Missouri Southern (1:00)

Nov. 19: Basketball doubleheader (5:45)

(Men vs. Lyon College; Women

vs. Central Methodist)  
Nov. 25: Women's Basketball vs. SIU-Edwardsville (8:00)

Nov. 26: Women's Basketball vs. Nebraska-Omaha (8:00)

Dec. 2: Men's Basketball vs. Rockhurst (5:45)

Dec. 3: Men's Basketball vs. St. Joseph's (3:30)

Dec. 6: Basketball doubleheader (5:45)

(Men vs. Maryville; Women vs. Lindenwood)

Dec. 10: Men's Basketball vs. Westminster (3:30)

Dec. 19: Men's Basketball vs. Drury (7:00)

Jan. 4: Basketball doubleheader vs. Missouri Western (5:45)

Jan. 7: Basketball doubleheader vs. Northwest Missouri State (1:30)

Jan. 18: Basketball doubleheader vs. Pittsburg State (5:45)

Jan. 21: Basketball doubleheader vs. Southwest Baptist (5:45)

Jan. 28: Basketball doubleheader vs. Missouri Southern (5:45)

Feb. 8: Basketball doubleheader vs. Northeast Missouri State (5:45)

Feb. 15: Basketball doubleheader vs. Washburn (5:45)

Feb. 18: Basketball doubleheader vs. Missouri-St. Louis (5:45)

(Drawing will be at halftime of the men's game)

## Soccer Shoots for Improvement

### UMR Men's Soccer

#### Source

Looking to erase a nightmarish 1993 season, the University of Missouri-Rolla men's soccer team is proceeding with workouts for the new campaign which begins Sept. 3.

Head coach Eric Swanbeck is counting on eight returning lettermen and a herd of new players to improve a team that finished with a 4-13 record last year and was outscored by a huge margin.

"We are not as injury-riddled as we have been in the past, so we are one step ahead of where we have been the past two years," said UMR head coach Eric Swanbeck. "We also have a more positive attitude, mainly due to the freshmen. We have more dedicated players and good leadership among the upperclassmen."

Leading the way for the Miners will be senior forward Jim Chapman (St. Louis, Mo./Hazelwood East), who will attempt to become UMR's first four-time scoring champion this fall. Chapman had six goals and an assist last year after winning all-region honors as a sophomore.

However, Chapman's scoring production may suffer a bit because he is going to play at a defender position this year to take advantage of his speed. One area where the Miners had problems a year ago was in the number of shots

taken against them, which consequently led to goals.

"Our main objective is to keep the ball out of our own net, so we have to prevent the number of shots on goal," Swanbeck said. "If we can accomplish that, I think we can win some games. They may not be pretty, but a win is a win."

Swanbeck is also counting on big seasons from two other seniors on the roster, striker Scott Harrison (Granite City, Ill.) and goalie Phil Hahn (Rockester, Ill.). Harrison missed nearly the entire 1993 season with an injury, while Hahn was forced to play a field position due to the injury situation. He will return to the goal this year.

Among the other returning lettermen are midfielder Andy Jenkins (Granite City, Ill.), forward Greg Shultz (Bellevue, Neb.), defender Brian Marks (Highland, Ill.), midfielder Josh Castor (St. Joseph, Mo./ Bishop LeBlond) and goalie Ethan Hayden (Florissant, Mo./ McCluer North).

The Miners will also field a number of newcomers in the upcoming year. Among the top prospects are midfielders Drew Gunning (Baton Rouge, La.), Matt Warhooover (Collinsville, Ill.), and Gevan McCoy (Rolla).

UMR will play an alumni exhibition game Saturday at noon, then will open the season with five straight road games, beginning Sept. 3 at West Texas A&M University. The Miners'



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## Student Council Services

### Fall Semester StuCo Legal Services

September 1, 14, 22, 28  
October 6, 12, 20, 26  
November 3, 10, 16  
December 1, 7

All services are from 2:30-3:30 in  
201 University Center-West  
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### Voice Your Opinion

Email stuco@umr.edu  
Call the suggestion hotline at  
341-6421

Post to our tin newsgroup;  
umr.studentorg.stuco



# Features

Laurie Wilman

## The Life and Times... Greetings and Salutations

Welcome back, oh fellow Rolla campers! (Kind of appropriate for a "welcome-back" issue, isn't it?) And how did we all survive our summer? (Note the word "survive.") Remember when summer meant kite-flying, bubble-blowing, hide-and-seeking, and swimming until you either looked like a Smurf — blue, that is —, a prune, or a really rare and prehistoric version of the catfish? Ah, those were the days... My summer was kinda', well, for lack of a better term, dull, but as I know how much you, my oh-too-faithful audience, just love to hear about the sufferings of others to keep your own spirits uplifted and content, I'll save my seasonal dol-drum for next week's issue. (Look thrilled. Thank you.)

But I digress to the subject at hand, which, of course, is welcoming you all back for yet another knowledge-seeking, mind-broadening, action-packed semester here at good ol' UMR. Now, for those of you who have been here at least a year, you've had the (mis)fortune of having read this happy little column rather regularly for a while now. For those of you who are new to the campus, though, let my byline introduce myself. With any amount of luck and a lot of rather careful planning on my part, (and assuming that I don't get attacked by a large contin-

gent of angry Diet Coke cans who are still mourning the loss of their beloved family members to my evil addiction to the stuff), you will have the opportunity to ponder with me the state of the world around us, the school around us, and the walls that seem to be closing in around us on a daily and ever-increasing basis. Now, as I know how that just thrills you to no end, I'll also be adding helpful hints every once in a while to get you through your busy year and on your way to a healthy, bright, and stress-free career as a college student at a university where none of the above are particularly easy to come by at certain moments in the year. But never fear, for I shall not abandon you. And, if these handy little articles ever seem to be slipping just slightly farther away from the real universe than usual, remember that I have classes, homework, and those horrible, icky things called tests to deal with just like you, too. Yuck.

Anyway, as a public service of this column (and perhaps as a bit of added incentive to get you to keep reading my happy little square of print for the rest of the year), I now offer you my own personal guide to staying happy, well-adjusted, and less stressed while attending this particular institute of higher education. No need to thank me; just remember me at Christmastime.

1. Leave town every chance you get.
  2. Write often and much to friends, family, pets, and anyone else who might be compelled to send you chocolate chip cookies if you sound pathetic enough.
  3. Do not overanalyze the meanings of the paintings in any of the tunnels to campus... it will hurt your head.
  4. Know who has the best price on aspirin, HP's, carbonated beverages, and printer paper.
  5. Remember: roommates are temporary, GPA's are forever.
  6. Take long walks to let your brain breathe — to and from north Arkansas should do it.
  7. Own at least three classical music tapes. Even if you don't use them to study, they look really impressive on Parent's Day.
  8. Check on a regular basis to make sure gravity is still working by dropping large textbooks from something tall... like the Empire States Building.
  9. Never go into a test without at least 3 lead refills and extra batteries for your calculator.
  10. Breathe deeply and realize that this will all be over in another few years and then you'll be thrust out into the cold, cruel, real world to either sink or swim at your own convenience.
- Good luck, and see y'all next week!

## StuCo Accepting Nominations for Parents of the Year

Every year some lucky UMR student's parent(s) are honored for their special qualities during Parents Day. Do you think your parent(s) are deserving of this honor? If so, please fill out the application below and return it, along with an essay (500 words or less) explaining why you believe your parent(s)

should be chosen Parent(s) of the Year 1994, to the Student Council Office (202 University Center-West). Please call the office (341-4280) if you have any questions. The deadline is Monday, September 12, so if you think your parent(s) are the best, you need to act quickly. Good luck!

Student's Name	Parent(s)' Mailing Address
Student Number	Parent(s)' Phone
Rolla Phone	Do your parent(s) know they have been nominated by you? Yes <input type="checkbox"/> No <input type="checkbox"/>
Rolla Address	PLEASE NOTE: The above items will not affect the judging. The decision will be based on the essay alone.
Parent(s)' Names	

## STUCO MINUTE!

Welcome to the STUCO MINUTE! Look for this weekly feature in the Miner outlining upcoming Student Council events and some issues and projects that affect the student body. It is a good way for you to keep tabs on what we are doing, making sure that we are representing your interests, because that is what we are here to do.

Once again, the semester has started, and some Student Council members were looking forward to this year so much that they came back to school early. The officer team and the committee chairs went on a leadership retreat to Montauk State park on August 17, 18, and 19 to work on goals for the year, develop their leadership skills, and get PSYCHED!! This group of people is now ready to make this semester a great one for Student Council. The officers are Andrew Sears, Keith Blackford, Scott Rutenkroger, and Diana Alt. The committee chairs are Jason Hansen, Bob Kossina, Tom O'Neill, Dan Engle, Matt Benz, Esther Walker, Ben Steltenpohl, Clorey Toombs, Stacy Doing, Josh Grove, Dan Winn, Travis Black, and Brian Harris. We really do want to make the campus environment better and help the student body. If you see us on campus,

or have an idea for improvement, let us know.

You can get in touch with us in many ways. You are welcome in our office at any time, which is in 202 University Center-West. We have a complaint/suggestion hotline at 341-6421, and you can email us at stuco@umr.edu. You can also keep tabs on our activities by monitoring our newsgroup on tin, which is umr.studentorg.stuco.

Council provides many services each year, which will be outlined in this section as they come up. Council also pursues popular student issues on campus. One thing Council will be looking into this year is the possibility of having a bar code on student id's that would allow you to buy things like books and food on a debit system, similar to the system on the UM-Columbia campus. Other issues are the possibility of a central posting area on campus, a fast food restaurant on campus, an Academic Enhancement Center in the library, improved lighting on campus, renovations on the Black Culture House, increased library hours, a new track, and the Hancock II Amendment (see article elsewhere in Miner).

see StuCo, page 11

## Design the most popular shirt in Rolla



Ryan Fisher  
Staff Writer

We at the St. Pat's Committee would like to welcome everyone back to the world of HP calculators and exams from Hell. We've been hard at work all summer to make sure that St. Pat's '95 will truly be The Best Ever!!! Now it's

your turn to help get everyone fired up for St. Pat's and win up to 100\$ at the same time. That's right, it's time for the eighty-seventh annual St. Pat's sweatshirt design contest. That means you can have your design on the sweatshirt that everyone will be wearing.

In order to submit an entry mail your design to: St. Pat's Committee c/o Nick Miller University Center West Rolla, MO 65401

All entries must be received by September 6, 1994, and become the property of the St. Pat's Committee. Please no references to alcohol (kegs or beer mugs in particular). If you have any questions call Nick Miller at 354-1292.

So get fired up for the sweatshirt design contest and remember the deadline is September 6, that's only 7 days away. More importantly get fired up for St. Pat's '95 because the Best Ever is only 197 DAZE away.

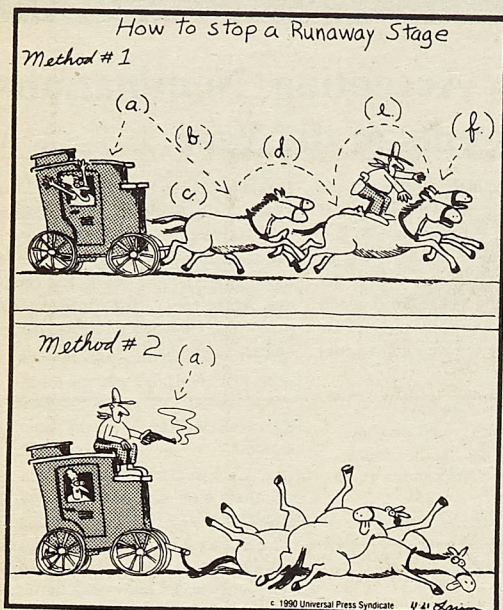


ATTENTION WRITERS! ATTENTION WRITERS! The features section of the Miner needs writers!! If you would like to write, please call Jody at 364-7586 for info. Feature's writers can write about campus events, town events, or basically anything they want.

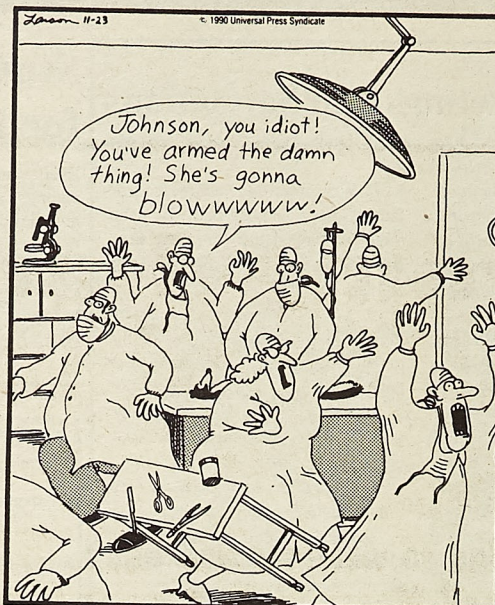


## THE FAR SIDE

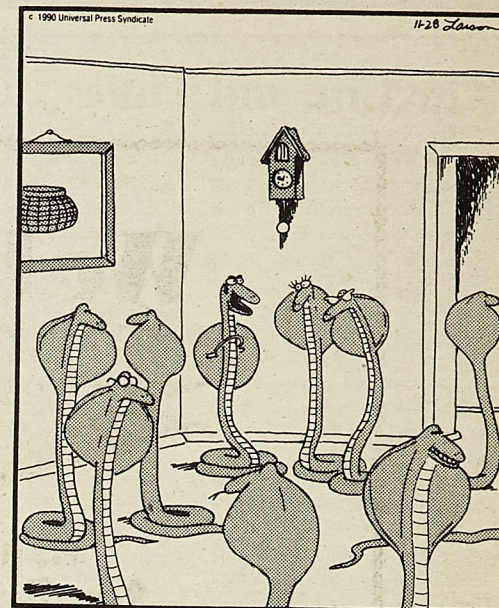
By GARY LARSON



From the book "Guide to Western Stuff."



Feb. 22, 1952: Veterinarians attempt the first skunk de-scenting operation.



In the corner, Vance was putting the move on two females — unaware that his fake hood had begun to slip.

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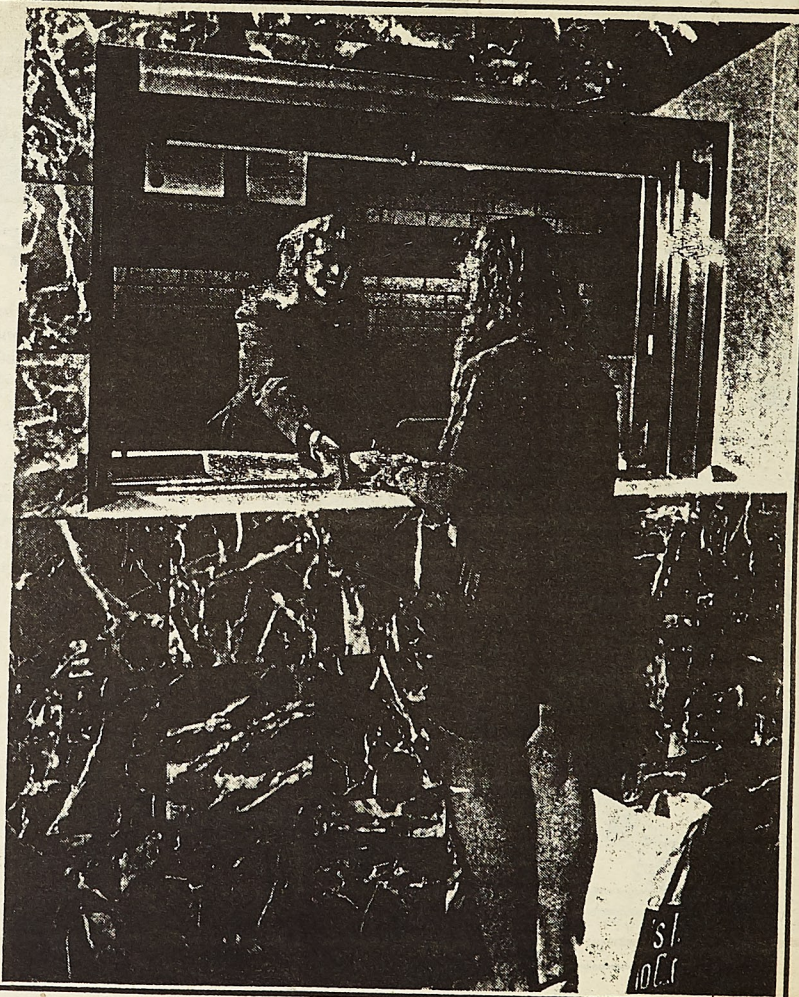
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8th & Pine St.  
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Hwy. 72 & Salem Ave.  
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265-3222

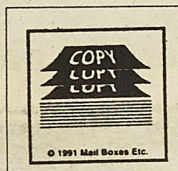




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# The Skipper Demands Proper Golfing Etiquette

The Skipper

Staff Writer

Have you ever been playing a round of golf with your friends, going along at a nice steady pace and then came upon an unbelievably slow group. This happens to many people all the time out at the luxurious Miner Golf Course.

Nothing upsets people more than slow, uneducated golfers on the course. There is absolutely no excuse for this. Even the worst hackers (that includes yours truly) should be able to play 9 holes in 2 hours. But, unfortunately,

often it ends up taking 2 to 3 hours.

In an effort to solve this problem, the following are some simple guidelines that one should acquire when playing golf. Perhaps the biggest cause of slow play is people taking forever to hit their shot. There is no reason to take 15 practice swings, stand over the ball staring at it for a minute, and finally deciding to hit the ball. Each player should be getting ready for his/her shot while one partner is hitting. It should take no more than 20 seconds to hit the ball once you have arrived at it. Once you have finally taken your shot and the dirt ends up going farther than the ball, don't take a mulligan if there are people waiting. Pick your clubs up, go

to your ball, and hit it from where it ended up.

Okay, after hitting the ball all over the course and it feels like you already walked 9 holes and you have taken enough strokes for 9 holes, you finally reached #1 green. Play around the green is another big cause of slow play that can be easily corrected if people do some basic things. Just like before in the fairway, everybody should be lining up there shots while one player is putting. Once everybody has finished the hole, go to the next tee box to write down the scores. Don't write them down while standing on the green of the hole you just finished.

Here is a short list of basic golf

etiquette:

- 1.) Allow faster groups to play through.
- 2.) Don't take any mulligans if people are waiting.
- 3.) Be ready to take your shot after a partner is finished taking his/hers.
- 4.) ALWAYS REPAIR BALL MARKS ON THE GREEN. It takes 5 seconds to repair, but forever if left alone.
- 5.) Don't look for lost balls for longer than 5 minutes.

Granted we aren't named Jack Nicklaus or Tom Watson, but if people begin to follow some simple rules on

golf etiquette, play at the golf course will be faster and more enjoyable for all.

The main reason for this column is to let students talk about a variety of topics dealing with sports around UMR. So if you have any questions, problems, etc. dealing with sports around campus drop a line by the Missouri Miner room and we'll try to talk about it in future articles.

The address is:

Missouri Miner Sports Editor  
c/o Skipper  
103A Norwood Hall

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**Come Help Us Make A Difference!**

## X-Country Teams In Top Form

UMR Cross Country

Source

The 1994 UMR cross country teams are also in the process of preparing for the season's first meet which will take place on Labor Day weekend.

After finishing fourth at the Mid-America Intercollegiate Athletics Association championships last season, the Miners have a good nucleus back for the upcoming campaign. Despite the losses of Steve Hostetter and Rob Vanderwall, three of the team's top five runners from a year ago are back.

That group includes junior Bob Etien (Fort Wayne, Ind.), who was the second-fastest Miner at the conference meet last year with a 17th-place finish, returning senior Steve Young (House Springs, Mo./Northwest) and a pair of sophomores who had solid freshmen years, Craig McCauley (St. Joseph, Mo./Central) and Ryan Unterreiner (St. Louis, Mo./Parkway North).

"It looks like we have a nucleus of four strong runners," said head coach Sarah Preston. "They are all very close together and pushing one another. Their summer mileage was up so they came in well-prepared."

Beyond those four, however, is a question mark. The Miners will have junior Kevin Schwalje (Rolla) back, but he is recovering from an illness and may be held out of the first meet of the year Sept. 3 at Lindenwood College. The fifth-through-seventh spots could

be filled by the likes of senior Brian Collingham (Tarkio, Mo.), or freshmen Jason Reneau (Murphysboro, Ill.), Marty Klipp (Kankakee, Ill.), Ben Mulvaney (Jackson, Tenn.), Jeremy Wilson (Monroe City, Mo.) and Patrick Hayden (Belleville, Ill./West).

The women's team faces a good news-bad news situation as they prepare for the 1994 season. The good news is that the number of competitors are up, which will almost certainly allow the Lady Miners to field a complete team at their seven meets this year. However, the bad news is that Becky Wilson, the conference runner-up last season, has exhausted her eligibility.

This means that the Lady Miners will have a very young team on the trails this autumn. There is only one upperclassman — junior Jessica Roberts (Chesterfield, Mo./Parkway West) — on the eight-member roster, and one sophomore in returning letterwinner Jennifer Frazer (Mexico, Mo.). The rest of the squad will be freshmen.

However, Preston feels this is a talented freshman class, headed by Tracy Jones (Rolla, Mo.), Jamie Bertchume (Eureka, Mo.) and Sheryl Ziccardi (Orchard Park, N.Y.).

"It is pretty exciting because it has been years since we've had a full team that we can get through the season with," Preston said. "All of our young runners are promising and are very close together ability-wise."

## StuCo

from page 7

There is always a place for you in Student Council! You can serve as a non-voting member starting at any time in the semester. As a non-voting member, you would be a part of the committees, where most of the work gets done, and you would be able to voice your opinion and the opinion of your fellow students at Student Council meetings. You can also just come

and watch a Council meeting if a topic is coming up in which you have a special interest.

Our meetings are on every other Tuesday night at 6:30 pm in 204 McNutt. Our next meeting will be on Tuesday, September 13. I think the "StuCo Minute" is more than up, so have a good semester and stay in touch with us!



# Campus Gossip

## Personals

Christy & Kim,  
You guys are the way coolest roomies, thanks  
for partying with me on my 21st!

ZLAM,  
Christy

Lambda Sigma Pi's pledges are stylish!

Congrats to Lambda Sigma Pi's New Pledges:  
Christy, Zach, Mikki, Carla, Kristen, and Nina!

Cole,

Was I AT Kappa Sig?  
Your Neighbor Across  
the Hall

M,

How about a cruise? A NORWEGIAN one?  
H

Stacey,

Congrats on Baby Rep of the Year! I'm so proud  
of you!

ZLAM,  
YBS

ZETA IS WAY COOL!

CHIOMEGA IS AWESOME!!

CONGRATULATIONS TO CHI OMEGA'S 17  
NEW PLEDGES! YOU GUYS ARE AWESOME!

Hey Mary,

I LOVE cards!

Amy R.,

...and do you know what I TOLD him?

T.J. and QUAD RA'S,

This year has been such a wonderful time. We  
will never be able to forget the times that we have had  
with you. Thank you for everything.  
Mel & Vicki

T.J. RA'S are the best! Thanks for a great year!  
Mel

This is a bus.

A what? A what? A what?

ABUS!

The nine Quad RA'S,

It's definitely been an interesting year! Thanks  
for the great work you have done this year—good luck  
and success in all of your future endeavors!  
-SLICK

Central Staff meetings are fun!!

K,

I've got something really important to tell you.  
Come down to my room. (Sorry, I had to)  
Dawg

We love you! (Moment of silence)  
Dawg

arion,

Want some candy little girl?  
Dawg

HI OMEGA IS NUMBER ONE!!!

nannon,

You did a great job with RUSH!!!  
LICO,  
Jen G.

Summer Staff,

What more could you want from a summer  
vacation—door decs, tours, Thai's in Toga's and leaky  
windows!

J.R.,

Take care of the farm wife. Try not to put the  
apron on too much.

Dawg

Stubby,

Don't trim up your fingers anymore. Watch out  
for a pissed off rat this summer.

Dawg

Thumper,

Enjoy Floyd and shave that head.  
Dawg

Cheech,

Stay off the tendo and give Chong hell.  
Dawg

Juan Nager,

Keep rockin'. Don't lose to much during the  
move. Work hard & bring back a truck.  
Dawg

Remember "Johnny Applesseed"? Here it comes  
again!

Lee,

Don't cut off a limb or we will have to hit you  
over the head with it or something. Take care of  
Nebraska.

Dawg

Slack,

Don't pierce anything else.

Dawg

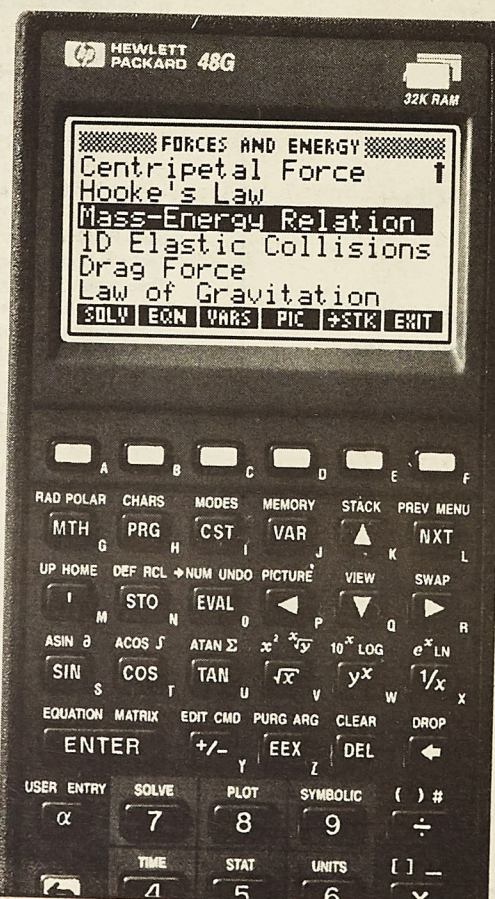
Wink,

Why don't you just not break a sweat this sum-  
mer.

Dawg

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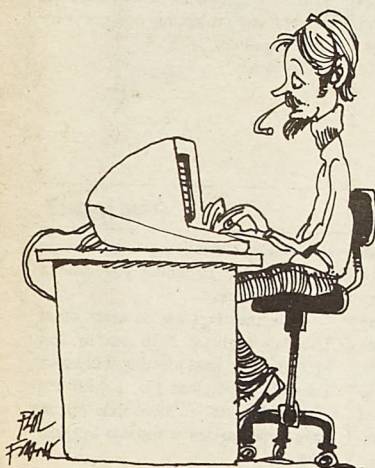
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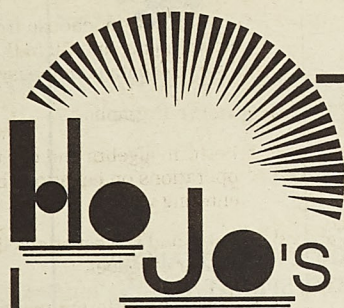
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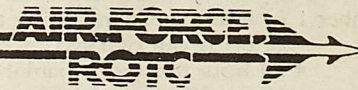
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# Full Time Employment

## FULL TIME EMPLOYMENT SCHEDULE INFORMATION

For the weeks of September 19-23

September 26-30

**ARCH OF ILLINOIS, INC.** Method: PRESscreen  
P. O. Box 308 Date of Interview: 09/22  
Percy, IL 62272  
Attn: Mr. Hubert Place,  
Manager of Human Resources  
Degree Level: B  
Majors: MIN  
Grad Dates: 1294 0595 0795 Minimum GPA: 2.750  
Citizenship: US/Perm  
Position Available: Mining Engineer  
Location: Within the company (KY, WV, WY, IL)  
Deadline for submitting resumes: September 1

**UNION PACIFIC RAILROAD** Method: PRESscreen  
1416 Dodge Street Date of Interview: 09/23  
Omaha, NE 68179  
Attn: Mr. Roger Dillion, Manager - Sourcing  
Degree Level: B  
Majors: MECH CIVL  
Grad Dates: 1294 0595 0795 Minimum GPA: 2.000  
Citizenship: US Only  
Position Available: Management Development Program  
Position Location: Omaha, NE  
Deadline for submitting resumes: September 1  
Pre-Recruitment Meeting - 09/22 - Meramec Room - 7:00 - 8:00

**BHP MINERALS** Method: OPEN SIGN-UP  
550 California Street Date of Interview: 09/27  
San Francisco, CA 94104  
Attn: Ms. Janice Davis  
Personnel Supervisor  
Degree Level: B  
Majors: MIN  
Grad Dates: 1294 0595 0795 Minimum GPA: 2.650  
Citizenship: US  
Position Available: Mining Engineer  
Location: Farmington, NM  
SIGN-UP DATE: September 1 - 8:00 a.m.

**US GYPSUM** Method: PRESscreen  
P. O. Box 187 Date of Interview: 09/23  
Sperry, IA 52650  
Attn: Ms. Victoria Morris  
Manager - Human Resources  
Degree Level: B  
Majors: MECH MIN  
Grad Dates: 1294 0595 0795 Minimum GPA: 2.450  
Citizenship: US Only  
Position Available: Entry Level Project/Process Engineer  
Position Location: Companywide  
Deadline for submitting resumes: September 1

**EMPOWER TRAINERS & CONSULTANTS** Method: PRESscreen  
4717 Grand, Suite 220 Date of Interview: 09/23  
Kansas City, MO 64112  
Attn: Ms. Mara Meade  
Director of Human Resources  
Degree Level: B M  
Majors: CMPS  
Grad Dates: 0594 1294 Minimum GPA: 2.450  
Citizenship: US/Perm  
Position Available: Programmer/Consultant  
Position Location: Kansas City, MO - The Plaza Area  
Deadline for submitting resumes: September 1

**UNION PACIFIC TECHNOLOGIES** Method: OPEN SIGN-UP  
7930 Clayton Road Date of Interview: 09/23  
St. Louis, MO 63117  
Attn: Ms. Rosemary Calomese  
Degree Level: B M  
Majors: CMPS  
Grad Dates: 0594 1294 0595 0795 Minimum GPA: 2.950  
Citizenship: US/Perm  
Position Available: Assistant Computer Programmers  
Position Location: St. Louis, MO  
SIGN-UP DATE: September 1 - 8:00 a.m.

**HUGHES AIRCRAFT** Method: PRESscreen  
16800 E. Centretech Pkwy Date of Interview: 09/29  
Aurora, CO 80011  
Attn: Mr. John G. Wilhite  
Sr. HR Consultant  
Degree Level: B-D  
Majors: COMP SCI ELEC MATH, PHYSICS  
Grad Dates: 1294 Minimum GPA: 2.00  
Citizenship: US/PERM  
Position Available: Member of Technical Staff  
Position Location: CA, CO, MD, NE, VA  
Deadline for submitting resumes: September 1



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## ASQC

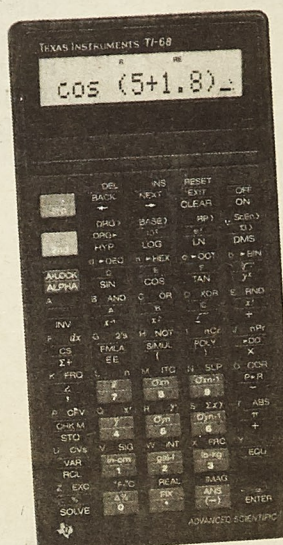
The American Society for Quality Control will hold its first general meeting of the FS94 semester on **Wednesday, August 31**, in 201 Engineering Management at 6:30 p.m. Anyone interested in the subject of quality control and/or membership is welcome. Refreshments will be served afterwards. Call 341-4095 or 368-4209 for further information.

## ASEM

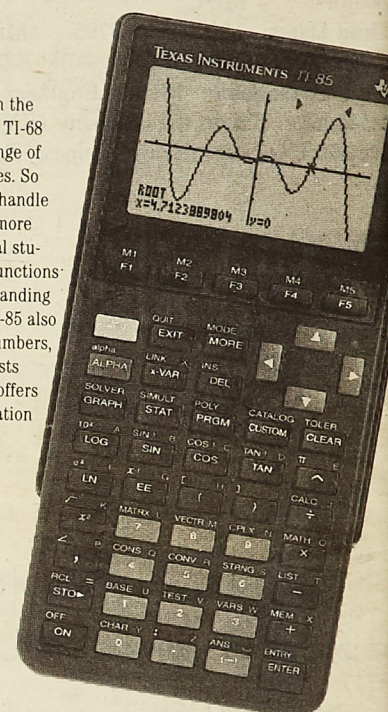
The American Society for Engineering Management will hold its first general meeting of the new semester on Wednesday, August 31, in 204 McNutt at 6:30 p.m. New members and other disciplines are welcome. Refreshments will be served afterwards. Call 341-4095 or 368-4209 for further information.

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